TECHNICAL INFORMATION
Appiano Gentile, May 2014

FOTECOAT 1066
Direct ceramic tile printing with high stencil build-up

1. DESCRIPTION
- Dual-cure emulsion with 50% solid content to produce thick stencils
- Fast exposing with wide latitude
- Resistant to weak solvent-based and water-based inks
- Light blue
- Sensitizing with separate Diazo powder: C20 for 1 kg set; C89 for 4.5 kg set.

2. APPLICATIONS ADVANTAGES
- Very high solids content (50%) and high viscosity can produce 300 μm stencil thickness
- Extra good flexibility
- The ready to print screens can be post-exposed to increase the printing resistance
- For longer runs a chemical hardening (catalyser) is necessary

3. COATING TECHNIQUE AND STENCIL BUILD-UP (COATING THROUGH .75 MM R)

<table>
<thead>
<tr>
<th>Mesh</th>
<th>Coating</th>
<th>Stencil Thickness below mesh</th>
</tr>
</thead>
<tbody>
<tr>
<td>43-80 white</td>
<td>2/2</td>
<td>30 μm</td>
</tr>
<tr>
<td>34-100 white</td>
<td>2/4</td>
<td>80 μm</td>
</tr>
<tr>
<td>34-100 white</td>
<td>2/3</td>
<td>60 μm</td>
</tr>
<tr>
<td>24-120 white</td>
<td>2/5</td>
<td>120 μm</td>
</tr>
<tr>
<td>24-120 white</td>
<td>2/2</td>
<td>40 μm</td>
</tr>
<tr>
<td>24-120 white</td>
<td>2/4</td>
<td>120 μm</td>
</tr>
</tbody>
</table>

4. STENCIL QUALITY
Thanks to the high solids content FOTECOAT 1066 produces a low Rz-value (flat stencil profile) coupled with excellent resolution.
5. STORING
The freshness of the Diazo controls the pot life.
Age, transportation and storing conditions influence the quality of the emulsion drastically.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Service Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsensitized, 18-25°C storage</td>
<td>18 months</td>
</tr>
<tr>
<td>Sensitized, stored at 20°C (pot life)</td>
<td>4 weeks</td>
</tr>
<tr>
<td>Pre-coated screens in total darkness at 20°C</td>
<td>3 weeks</td>
</tr>
</tbody>
</table>

6. EXPOSURE TIMES
Many variables, such as lamp type and age, distance from lamp to screen, mesh type and coating thickness, can affect exposure time. Perform an exposure test with one of two calculators now available (Exposure Calculator and 21 Step Sensitivity Guide) to determine correct exposure time for a complete cure.

7. CHEMICAL HARDENING
Recommended is FOTECHEM 2130. The hardener can be applied by the usual method. The penetrating and drying times recommended by the manufacturer should be kept to reach the best possible result.

8. REMOVAL
All commercial decoaters can be used. A high pressure gun is necessary. Stencil removal is only possible, if the screen has not been hardened chemically.

FOTECO offers several stencil removers:
- FOTECHEM 2004 liquid; FOTECHEM 2005 paste
- FOTECHEM 2042 concentrated liquid decoater (1:30) for machine decoating
- FOTECHEM 2048 is a more efficient liquid concentrate (1:30) for decoating
- FOTECHEM 2044 powder

The longer the exposure, the better the through-curing of the stencil. If necessary make a post exposure. Both render the decoating easier.
- For the regeneration of the decoated mesh FOTECHEM 2080/2085 can be used to remove all ink and emulsion residues; jet wash is necessary.
- Diazo stains can be bleached out after decoating with FOTECHEM 2089.

SAATI S.p.A.

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